SM-MSO-330

MorphoSmart 500 ppi Optical Fingerprint sensor FAP #30 (Metal Housing, USB) (Replacement for SM-MSO-300)

The MSO 300 Series

The MSO 300 Series is a family of high-end optical sensors, based on IDEMIA's unrivalled experience in the fields of electro-optics and forensic quality fingerprint processing algorithms. The devices cover a wide range of applications: enrollment, authentication and identification in industrial/commercial and governmental environments.

• A versatile device that carries out both enrollment and comparison (1:1 authentication and 1:N identification)
• Excellent fingerprint capture and processing performance with the largest single fingerprint optical sensor on the market (23x23mm, 500 dpi, 256 grey levels)
- Authentication < 0.7 sec(1)
- Identification < 0.9 sec in 1:1000 mode(1)
- Top grade solution to register young or elderly people, manual laborers (mining, textile, etc.)
• Overall performance certified at the highest levels:
- FBI PIV IQS (image quality)
- MINEX compliant algorithms
- FIPS 201
- STQC
- Common Criteria for fingerprint spoof detection (certified by BSI(2))
• Accurate: the false acceptance rate (FAR) is configurable down to 10-8 - depending on the security requirements - and maintained regardless of number of users in database
• Guides the user and automatically controls the image quality during fingerprint capture
• Large internal database: standard capacity of 500 users (2 fingerprints each), extendable to 3000 (with MSO IDENTLITE license) or 5000 (with MSO IDENTPLUS license)
• Multiple template & image formats:
- ISO 19794-2, ANSI/INCITS 378, Proprietary
- ISO 19794-4, WSQ compressed image
• Options:
- Smartcard reader
- Fake finger detection (Common Criteria certified)
- Security features to protect the communication channel between host and device (integrity check, data encryption)

(1) Includes detection, encoding and matching
(2) BSI = Bundesamt für Sicherheit in der Informationstechnik (German Federal Agency for the Security of Information Technologies)



Details

- Excellent fingerprint image quality: large capture surface, FBI PIV IQS certification
- Enrollment, 1:1 verification and 1:N identification capabilities
- High accuracy: embedded FIPS 201 and MINEX compliant algorithms
- Large internal database capacity: up to 5000 users (2 templates each)
- Options: fake finger detection (SM-MSO-331 only), smartcard reader, security features

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Technical specifications

System

RTE (Request To Exit)	No
CSN (Card Serial Number)	No
No. of LEDs	2

Technology

Reader type	BioMetric
Read write	No
SAM module embedded	No

Interface & connections

Connector type	USB

Tamper type

Pry-off tamper	No
Opening tamper	No

Operation

Stand-alone	No
PIN keypad	No

Electrical

Power supply type	USB

Physical

Physical dimensions	92x57x80
Net weight	300 g
Shipping weight	500 g
Colour	Grey
Form factor	Desktop

Environmental

Vandal proof	No
Operating temperature	0 to +50°C
Storage temperature	-20 to +70°C
Relative humidity	10 to 80% noncondensing

Regulatory

Compliancy	CE, FCC, REACH, RoHS

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